2: Fortes E-5 (1934-1937) 1945
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CHAPTER I

INTRODUCTORY

The Natural Environment of the Tallensi

THE Northern Territories of the Gold Coast lie entirely within the Sudanese Zone.[1] It has been variously described as 'parkland', 'savannah', or 'orchard bush' country, terms which indicate the sparse and uniform forestation characteristic of this zone. Stretching irregularly and almost right across Africa, between the eighth and the sixteenth parallels N. latitude, it merges into the Sahara on the north and is bounded by the tropical rain forest on the south.

The traveller in West Africa who enters this region from the south is impressed by the contrast with the forest belt. According to his predilections he will view it with pleasure or dismay after the massive and gigantic gloom of the forest. Here are no great trees a hundred or two hundred feet high rooted amid thick undergrowth and enveloped in tenacious creepers. The orchard bush country is a vast plain, in some parts monotonously flat, in others gently undulating and diversified by an occasional range of hills or a steep scarp. The tracts of bush, sometimes fairly extensive, which may be encountered in the less populated areas, resemble the secondary forestation of abandoned cultivations in the rain forest. Scattered trees, no larger than our oaks and beeches, man-high grass, and scrub constitute these patches of standing bush. In the dry season the landscape appears harsh and bare, and its general drab hue is hardly relieved by the shade trees in front of the native homesteads or the remnants of vegetation along the dry watercourses. The mud walls and thatched roofs of the homesteads seem to blend indistinguishably with the dusty country-side. In the middle of the wet season, when every footpath becomes a rivulet and every depression a bog, the homesteads are hidden behind ramparts of luxuriant grain, and the whole country-side is resplendent with the green of flourishing vegetation.

The climate of the Sudanese Zone exhibits two clearly defined seasons, a dry season lasting about half the year (October to March) and a wet season lasting the remaining six or seven months (April to October). Not only are there marked variations in the mean rainfall from one area

[1] For a short account of the principal ecological and climatic features of the part of the Sudanese Zone that concerns us in this book, see Lynn, C. W., *Agriculture in North Mamprussi*, Bulletin No. 34 of the Gold Coast Department of Agriculture, 1937. Climate and vegetation are more fully discussed in Bégué, L., *Contribution à l'Étude de la Végétation Forestière de la Haute Côte d'Ivoire*, Publications du Comité d'Études Historiques et Scientifiques de l'Afrique Occidentale Française, 1937. These writers give lists of the common trees of economic value found in our area, of which the following are the best known and most frequently seen in inhabited places: Shea (*Butyrospermum parkii*); locust bean (*Parkia filicoidea*); baobab (*Adansonia digitata*); various species of acacia; the silk cotton (*Ceiba pentendra*); the tamarind (*Tamarindus indica*).

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to another, ranging from 25 inches to 45 inches per annum, but fluctuations occur from year to year in the same area. Erratic or abnormal rains may so disturb the cycle of food production as to subject a majority of the population to severe privation. The temperature in the vicinity of 10° 30′ N. latitude and 0° 30′ W. longitude varies from a minimum of about 70° F. to a maximum of about 93° F. A characteristic feature of the dry season is the harmattan, a hot parching wind laden with fine dust which blows from the Sahara, so strongly at times as to obscure the landscape in a haze which limits visibility to a few hundred yards. Heavy dew and mists cause the mornings to be chilly and bracing, so much so that the natives squat shivering round fires or remain indoors until the sun is high; from the forenoon until about 4 p.m. the sun blazes relentlessly through the faint haze; sunset ushers in a cool and balmy evening; and night brings a relatively marked drop in temperature. Violent nocturnal tornadoes from the east and north-east, accompanied by lightning and thunder, introduce the rainy season, during which the prevailing wind blows from the direction of the Gulf of Guinea, to the south and south-east. During this season the temperature remains fairly stable throughout the day. Though it is never as hot as in the hottest days of the dry season, the humidity makes it at times excessively oppressive. The peak of the rains comes in August–September. It rains so heavily then that many social activities are impeded. These conditions of vegetation and climate fundamentally influence the economy and the social life of the inhabitants of the Sudanese Zone.

This book is concerned with the population of a very small section of the Sudanese Zone, a part of the region drained by the Volta river system. The head-waters of this system lie in French West Africa. About 20 miles south of the international boundary between the Gold Coast and French Ivory Coast, which has been arbitrarily fixed to coincide approximately with the eleventh parallel N. latitude, the Red Volta flows into the White Volta. Between these two rivers, on the east and south respectively, and the Sissili river on the west lies an area, arbitrarily truncated on the north by the international boundary, comprising two of the most heavily populated administrative districts of the Gold Coast. The eastern third of this area constitutes the administrative district of Zuarungu, the remaining two-thirds the district of Navrongo. The Red Volta separates Zuarungu district from another administrative unit, Kusasi, and the White Volta forms a natural boundary between it and the Mamprusi district, to the south of which lies the territory of the Dagomba.

As the following table[1] from the census of 1931 shows, the Zuarungu district is the most densely populated part of this area; and as the population tends to be concentrated in the centre and north, the actual density of settlement exceeds the figures given. In some localities this is reflected

[1] See *Appendices containing Comparative Returns and General Statistics of the 1931 Census*, Gold Coast, 1932, p. 3; and Cardinall, A. W., *The Gold Coast*, 1931, Population Map, p. 156. Mr. Cardinall remarks (p. 123) that 'A majority of the census officers were of opinion that the figures collected by them are lower than they should have been by from 2 per cent. to 10 per cent.'—a contingency inevitable in a country which is for the most part still pre-literate.

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in serious soil erosion due to over-cultivation and in the diminution of uncultivated bush land, so that firewood and other sylvan products cannot be found within six or more miles of the settlements.

District	*Area*	*Population*	*Density per sq. mile*
Navrongo . .	1,551	120,870	77·96
Zuarungu . .	781	133,981	171·55
Kusasi* . .	1,227	151,715	123·64
Mamprusi* .	2,719	61,520	22·62
Dagomba* . .	12,257	191,956	15·66

* Partly in Mandated Territory of Togoland.

In spite of the general similarity of climate and vegetation in the Sudanese Zone, local variations produce significant ecological differences. This is shown in the Northern Territories of the Gold Coast by the differences in agriculture north and south of the Gambaga scarp. The steep scarp marks both a geological and an ecological line of division. South of it the rock formations are of sandstone and shale, north of it granite, quartz, and greenstone predominate. South of the scarp a form of shifting cultivation is customary, and yams (*Dioscorea* spp.) are grown on a large scale side by side with millet (*Pennisetum typhoides*, var.), guinea corn (*Sorghum vulgare*), and maize (*Zea mays*). North of it yams will not grow easily and cereal crops form the staple food supply.[1]

The relative scarcity of population in the yam-growing districts compared with the congested areas north of the White Volta may be due to unknown historical and cultural factors, but endemic diseases have undoubtedly impeded population growth. While malaria, yaws, and leprosy, to mention only the commonest enemies of native health, are widespread throughout the Northern Territories of the Gold Coast, sleeping-sickness is also endemic throughout the Mamprusi and Dagomba districts. In the central sectors north of the scarp sleeping-sickness occurs only sporadically near the rivers.

Topographical differences also appear to influence the distribution of population. The high plateau which stretches from the White Volta northwards is more suited for permanent habitation than the low-lying flats which make up the greater part of Mamprusi and Dagomba. In the wet season they turn into quagmires, in the dry season they are arid tracts seriously short of water-supplies. North of the White Volta numerous streams and small rivers combine with the relatively greater elevation to drain the plateau effectively during the heavy rains; and though surface water becomes scarce in the dry season, shallow pits generally provide sufficient water for normal needs.

The district of Zuarungu is a typical portion of the Trans-Volta plateau. A number of bouldery hills from 100 to 500 feet high are scattered over its undulating surface. The most conspicuous are the Tong Hills, a small range stretching for about four miles just north of the river. It adds an

[1] Cf. Fortes, M. and S. L., 'Food in the Domestic Economy of the Tallensi', *Africa*, ix. 2, 1936; and Lynn, C. W., op. cit.

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the former; and Biuŋ, with 25 homesteads and less than 400 inhabitants, is a peripheral settlement of the same type as Datɔk, which has over 600 homesteads and between 5,000 and 6,000 inhabitants. The whole of Biuŋ can be seen from one of the hummocks on which it stands, but it takes an hour's ride on horseback to get round the whole of Datɔk.

The density and distribution of habitation varies somewhat from one part of the country to another. The broad undulating plain on the north side of the Tong Hills permits of dense settlement, whereas the plain stretching south and south-east of the hills carries a relatively sparse population.[1]

Differences of altitude and of drainage probably explain this. During the rains a large part of the southern plain becomes too waterlogged for cultivation or for human habitation. Many of the Hill Talis went to live there when they were dispersed in 1911.[2] Though they have always cultivated bush farms there, wherever the lie of the land is suitable, they look back on their exile as a doubly miserable interlude on account of the uncomfortable and unhealthy conditions in which they had perforce to live. Accustomed to their well-drained hills, they hated the interminable swamp, as it seemed to them, into which the plain is transformed during the rains; and hardened though they are, they found the mosquitoes and other noxious insects that swarm there during this season an intolerable plague.

From the top of the Tong Hills, looking northwards, one has a view of what seems to be an endless plain, dotted meagrely with trees, and studded closely, as far as the eye can reach, with homesteads. They are identical in appearance, squat, circular, drab-grey or red, like the soil itself, mostly thatch-roofed, and seem to be scattered indiscriminately, some close together, others farther apart. There is nothing to indicate where one settlement ends and the next begins. Homesteads here, in the old settlements, are often no more than 20 yards apart.

The density of population is greater in the old than in the new settlements, and greater in the vicinity of the Tong Hills than in settlements nearer to the periphery. I cannot state how great the difference is, as I had neither the time nor the training for a comprehensive demographic survey. Sociological observation suggests that the amount of arable land available is an important factor, though not the only one, determining density of population in the older areas of settlement. This is as one would expect of a sedentary population of subsistence farmers. In the new settlements there is ample land, and men have large home farms immediately adjoining their homesteads, which are therefore often as

[1] I have no exact figures. From the statistics given in the census of 1931 (*Appendices containing Comparative Returns and General Statistics of the 1931 Census, Gold Coast*, Government Printer, 1932) it appears that the large area lying between Pwɔlɔg (Kpɔlɔg), the centre of the Tong Hills, and a straight line from there to the Red and White Volta—that is, this southern plain—had about 5,000 inhabitants in 1931, only one-seventh of the total population of Taleland. This included many people who were then in exile and now live on and around the Tong Hills.

[2] By order of the British Administration, after the punitive expedition against them. Cf. p. 12 above.

3: Fortes E-5 (1934-1937) 1949
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If the head of the house is still junior in status in the lineage hierarchy, as Ɔndieso is, it will be the shrine dedicated to his father's Destiny (*yin*), or it may be his father's divining (*bakolɔgo*) shrine. The house is still under the spiritual jurisdiction of Ɔndieso's dead father, though he himself now owns it in the temporal sense. A man of greater social maturity, with grown children and higher lineage status, would very likely have his own *yin* or *bakologo* shrine at his gateway. His house is established; it is no longer the fulfilment of his father's destiny, as is the house of a young man, though it may still be known by his father's or grandfather's name. For as long as a homestead remains standing it is known by the name of the man who first built it.

A bird's-eye view would show a homestead as covering a roughly circular or oval area (Figs. 2*a* and 2*b*). The space in front of the gateway (*zanɔne*—at the gateway) belongs pre-eminently to the menfolk. The public phases of funeral and mortuary ceremonies, which are corporate concerns of the lineage and are conducted by the men, take place there. When anything touching the rights, duties, or interests of the head of the family in his capacity as a member of a particular lineage calls for consultation with fellow members of the lineage, the *zanɔne* is the gathering place. It is the proper place for him to receive greetings, condolences, or congratulations, and to conduct formal negotiations in a matter such as the payment of bride-price owed to him or by him. In the dry season he often rests there, beneath the shade tree, during the sweltering afternoon, chatting with a friend or fondling an infant left in his charge while its mother is busy indoors. Women of the house come and go freely, and often sit or lounge about in front of the gateway; but when 'an affair of the men (*buraas yɛl*)' is in progress they keep away.

The gateway (*zanɔr*) always faces west to south-west, 'where the sun sets (*nintaŋ nhaut*)'. This is a convention never broken by the Tallensi, though they have neither a naturalistic explanation nor a mystical rationalization for it, and it is not subject to mystical sanctions.[1]

The gateway is a V-shaped opening, about a foot wide at the base and 3 to 4 feet wide on top, between two round pillars (*meelɔŋ*) forming part of the wall of the house. Large irregularly spaced holes are made in these pillars for short logs to be inserted at night as cross-bars against which a heavy, hollow board (*belɔŋ*), cut from a tree-trunk, or a bundle of poles can be leaned to close the gateway. Tallensi say that they build the gateway thus in order to bar it the more securely against the

[1] As the rain-bearing winds blow from the south-east, and the tornadoes that begin and end the rainy season come from an easterly direction, it is possible that the placing of the doorway on the western side of the house is an adaptation to this feature of the climate. Anyone who has experienced the discomfort of a tornado whirling straight into a room, or of a heavy rain, in this region will appreciate the usefulness of placing the only entrance into a homestead on the lee side. But no native has ever given me this obvious explanation, though this may be due to inadequate inquiries on my part.

[Text is continued on p. 54.—Ed.]

4: Fortes and Fortes E-5 (1934-1936) 1936
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The climate of the Northern Territories of the Gold Coast has two well-marked seasons, a rainy season (*seug*) and a dry season (*uun*). The rainy season is the period of intense agricultural activity and lasts from April to October; the dry season, when agriculture sinks into the background of social interest, from November to March. We shall set out the cycle of agricultural and food economy month by month, beginning with April, the first month of the rains.[1]

PRODUCTIVE CYCLE	FOOD CYCLE
APRIL: First planting-rain fell on March 26, and early millet (*naara*) with some cow-peas and *suri* was planted in the valley settlements. Rain again in mid-April enabled most people to plant early millet, &c. Women sowed their vegetable patches; *nangena*, *hibiscus* (*ma'ana*, *bet* and *beris*), marrow (*wok*—planted by only a few women) and other vegetables. Hoeing begun; but not more than one day in three devoted to agriculture. Communal fishing expeditions.	Food stores very low in average households and being rationed. Many dependent upon supplementary sources of supply. People buying grain abroad for re-sale. Ample food supplies in market and many buying grain. Market-prices average. Children gleaning ground-nuts.[2] Wild fruits—shea (*taanr*), *ximenia americana* (*lieŋ*) and especially dawa-dawa powder (*dɔbugm*)—being consumed to stave off hunger.[3]

[1] The Tallensi have a lunar calendar, but we are following the European calendar to simplify the exposition. All dates given refer to 1934.

[2] Ground-nut gleaning (*nyoh*) is a regular pursuit of children, adolescents, and even adults of households with small supplies of ground-nuts. After the ground-nuts have been lifted any one may come and scratch with a hoe for those left in the ground. Thus little groups of boys and girls, from infancy to adolescence, wander about in the fields near their homes scratching with old hoes for the ground-nuts, which they collect and eat. Early in the dry season these ground-nuts are regarded as snacks. When the dry season reaches its end, however, they become scarcer but are searched for more eagerly as a measure to stop the pangs of hunger between one meal and the next, often twenty-four hours later.

[3] Shea fruits are collected by the women throughout this season, mainly from trees on bush farms belonging to their compound. Dawa-dawa powder is more difficult to come by as the trees are jealously watched by the owners, who are in some areas the chiefs *ex-officio* and in others heads of lineages. Dawa-dawa pods are thus often obtained by gift, purchase, or exchange from the owners, or in the market. Every part of the fruit is of great value—the floury powder is eaten, the seeds collected and turned into *kpolog*, the husks of the pod used to prepare *ani*, the liquid with which the walls and floors of compounds are waterproofed.

7:Lynn G-5 (1932-1936) 1937 FE11 Tallensi FE11

Isolation.

An important economic feature of the district is its distance from the coast, 500 miles, and from rail head, 350 miles. This means expensive road transport precluding the possibility of all but local exports with the present prices ruling on the world's markets. The isolation is further emphasised by the fact that the main road to the South is not yet all-weather. Motor traffic is cut off from the end of May until the end of November, when the Volta rivers wash away the temporary dry season drifts.

European Contact.

Contact with Europeans has taken place only comparatively recently, *i.e.*, within about the last forty years, and for some time, soldiers, police, and political officers were the only "white men" known to the people; these were followed by medical and veterinary officers. It was not until 1930 that an agricultural officer visited the district in the growing season, and then only temporarily upon locust control duty. Observations made during this visit are recorded in the Department's Year Book for 1930 (4). In 1932 practically new ground had to be broken, and a natural suspicion, increased by not altogether unfounded rumours of direct taxation, had to be overcome before the people's confidence was obtained. The importance of this confidence for the success of our work requires no stressing.

Climate.

The main climatic feature of the district is a well defined rainy season, lasting from the beginning of April until the middle of November, alternating with an intensely dry season. The mean annual rainfall at Zuarungu is 43.92", at Navrongo 47.83", and at Bawku 41.20". Monthly means are given in Appendix I. The whole of North Mamprusi is included in the Sudanese Climatic Zone (5). Rainbearing winds come from the South East, but tornadoes from the East and North East mark the beginning and the end of the rainy season; then precipitations are very localised. From November until February or March the "harmattan" (5) wind blows with varying severity.

Vegetation—Trees.

The natural vegetation of North Mamprusi is "tree savannah" (6) with fringing forest along the banks of the larger rivers. In the populated parts of the district only trees of economic value,

7:Lynn G-5 (1932-1936) 1937 FE11 Tallensi FE11

APPENDIX I.

●132 Mean monthly rainfall recorded at Zuarungu, Navrongo and Bawku.

Month	Zuarungu (19 years)	Navrongo (11 years	Bawku (10 years)
January	.06	nil	nil
February	.66*	.39**	.29
March	.72	.34	1.02
April	2.78	3.15	2.16
May	4.27	5.14	3.10
June	6.43	6.68	5.80
July	7.22	8.04	7.56
August	9.93	11.85	8.90
September	8.73	8.85	8.71
October	2.42	2.85	2.85
November	.68	.37	.70
December	.02	nil	.11
Means	49.92	47.83	41.20

*8.93" recorded in 1919. **3.12" in February, 1932.